Form Builder

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Project Overview

Objective :Form builder with admin and user.

Tools Used : HTML,BOOTSTRAP,NODE.JS.

Platform : VS Code, MongoDB,Github

Output : Dynamic form builder and responder with admin and user roles.

Planning Phase

Requirement Gathering
➜ Define features (admin create forms, user submit forms, login/signup).
Database Design
➜ Plan Mongoose models for Users, Forms, and Responses.
Backend Setup
➜ Build Express server, API routes, authentication (bcrypt), use CORS.
Frontend Development
➜ Create pages (Login, Register, Create Form, View Forms) using HTML, Bootstrap, JavaScript.

Execution and challenges

Execution

- Set up backend and frontend separately (Express + HTML/Bootstrap).
- Create APIs for forms, users, and responses using Mongoose.
- Implement login/signup with password hashing (bcrypt).
- Build dynamic form rendering and submission for users.

Challenges

- Handling dynamic fields (adding/removing fields smoothly).
- Managing authentication sessions or tokens properly.
- Validating user inputs dynamically based on form rules.
- Syncing form templates and responses correctly in database.

Learnings

Authentication and Authorization

Dynamic form handling

Database relationships

Data validation and error handling

Future Improvements

Add more visual interactivity with Bootstrap

Allow user to save forms as Drafts.

Enable file uploads in form.

Implement email notification on submission.